Akshay Vijay Jadhav

PG (II Year I Semester)
M.Tech. Computer Science and Engineering
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Indian Institute of
Technology
Roorkee

VERIFIED

Area of Interest

Problem Solving in Data Structure and Algorithm, DBMS.

Education

Year	Degree/Examination	Institution/Board	CGPA/ Percentage
2023	M.Tech. 1st Year	Indian Institute of Technology, Roorkee	6.947
2022	Graduate (UG)	Government College of Engineering Aurangabad	7.193
2018	Intermediate (Class XII)	khulbhushan college Aurangabad	7.770
2016	Matriculate (Class X)	Mukul Mandir	7.840

Projects

Federated Learning | IIT-Roorkee   July 2023 - May 2024
- Implemented Federated Learning Techniques, Ensured Data Privacy and Decentralization, Focus on Consistently
- Improving Fraud Detection Accuracy.
- Technologies Used: Advanced Deep Learning Bert, Robert, Albert Transformer Models, LSTM Networks.
- Data Scenarios: Balanced Datasets, Unbalanced Datasets, Non-IID (Non-Independently and Identically Distributed) Data
- Settings
- Objective: Enhance Credit Card Fraud Detection.

HTTP Load Balancer | IIT-Roorkee   October 2022
- Designed and implemented an HTTP load balancer for a network of three servers, employing both static and dynamic load-balancing algorithms.
- Simulated substantial client requests and effectively distributed traffic, enhancing server performance and reliability.
- Technologies Used: Python, Socket Programming, Load Balancing Algorithms.

Assembler for SIC/XE machine | IIT-Roorkee   August 2022 - September 2022
- Developed a 2-pass SIC/XE Assembler.
- Engineered various instruction formats, addressing modes, assembler directives, literals, symbols, and program blocks.
- Constructed the listing file and object file corresponding to the given assembly input.
- Technologies Used:C++

Using Data Mining to improve business in hotel chain like Taj hotels | IIT-Roorkee   February 2023 - March 2023
- Used various Data Mining techniques to comprehensively analyze customer data to help hotel chains in strategic decision-making to improve their business.
- Some of the analyses done on the data include - Exploratory Data Analysis, Clustering, and Apriori Analysis to get frequent itemsets and Decision trees for classification.

Awards / Scholarships / Academic Achievements

- Secure 98.73 percentile in GATE (2022)
- GeeksForGeeks Institute Rank 3 with Coding Score 2500+
- First runner-up in abacus in Computation (2010) conducted by SIP
- Twenty-sixth runner-up out of five hundred in Chess Computation conducted in Aurangabad (2013)

Skills

Computer languages	C , C++ with STL, Python , OOPS Concepts in C++ .
Software Packages	NumPy, Pandas, Seaborn , Matplotlib , Plotly , Scikit-Learn , Machine Learning, TensorFlow .
Additional Courses	Operating System, Computer network, DBMS, SQL, Data structures and Algorithms self-placed, Computer Architecture, Python for Data Science and Machine Learning Bootcamp.
Minor/Honors Courses	Basics of Machine and Deep Learning.
Languages Known	English , Hindi , Marathi

Positions of Responsibility & Extra Curriculars

Teaching Assistant | Indian Institute of Technology Roorkee   July 2023 - November 2023
- Responsibilities: Assisted in teaching and mentoring students enrolled in CSN-261 course on Data Structures Lab. My responsibilities are conducting Lab sessions and addressing the queries of students.

References

Prof. Rahul Thakur
Assistant professor
IIT-Roorkee
rahul.thakur@cs.iitr.ac.in